

इंटरनेट

मानक

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Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 6879 (1973): Fabric for Target Banner, Radar Responsive
[TXD 13: Textile Materials for Aerospace Purposes]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

SPECIFICATION FOR FABRIC FOR TARGET BANNER, RADAR RESPONSIVE

1. Scope — Prescribes requirements for fabric used in the manufacture of radar responsive target banner towed behind aircraft for giving air to air and ground to air firing practice in conjunction with radar devices.

2. Manufacture — The fabric shall be manufactured from polyethylene monofilament and metallizing elements consisting of duraluminium or silver coated copper filament. Metallizing element shall be introduced in the weave of the fabric to give 24 filaments per 10 cm in the weft and 16 per 10 cm in the warp. The polyethylene monofilament shall have a nominal diameter of 0.5 ± 0.05 mm and it shall be neither pigmented nor heat treated. Metallizing element made from duraluminium or silver coated copper filament shall be flattened to form a strip of 0.35 mm wide having a thickness of 0.02 mm. The weave of the fabric shall be leno.

3. Requirements — See Table 1.

4. Marking — Each piece of fabric shall be legibly marked with the following:

- a) Name of the material,
- b) Manufacturer's name,
- c) Length of the piece, and
- d) Year of manufacture.

4.1 ISI Certification Marking — Details available with the Indian Standards Institution, New Delhi 110001.

5. Packing — Each roll of fabric shall be tied with 3-ply jute twine and suitably wrapped with an inner layer of kraft paper and an outer layer of polyethylene film of at least 40 micron thickness. Six such rolls shall be placed one over the other and then wrapped with heavy ceecloth to form a bale.

This standard is based on Defence Specification No. CIAD/15 Fabric for target banner radar responsive.

Adopted 20 March 1973

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INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
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TABLE 1 REQUIREMENTS OF FABRIC FOR TARGET BANNER, RADAR RESPONSIVE

(Clause 3)

	Length in m	Width in cm	Width of Selvedge in cm	No. of Ends in Selvedge	Weight in g/m ²	Ends per dm	Picks per dm	Breaking Strength in kg on 10 x 20 cm Strips : Warp and Weft Min	Width of Closely Woven Strip in the Middle of the Fabric cm	No. of Ends in Closely Woven Strip	Coefficient of Radar Reflectance (Approx)	
											'S' Band	'X' Band
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	20·5	184	5	55	300	58	50	100	5	55	0·8	0·8
Tolerance		+ 0 - 2	±1	±3	±20	±2	±2		±1	± 3		
Method of Test	5 of IS : 1954- 1969*	6 of IS : 1954- 1969*	—	—	IS : 1964- 1970†	5 of IS : 1963-1969‡		8 to 11 of IS : 1969- 1968§	—	—	—	—

* Method for determination of length and width of fabrics (first revision).

† Methods for determination of weight per square metre and weight per linear metre of fabrics (first revision).

‡ Methods for determination of threads per decimetre in woven fabrics (first revision).

§ Method for determination of breaking load and elongation at break of woven textile fabrics (first revision).